# Exhibit 4

#### > Humax makes WiFi systems including routers and extenders

**HUMAX** Wi-Fi ROUTERS & EXTENDERS ~ HOME Wi-Fi SYSTEM ✓ SUPPORT ~ **■** BUSINESS ∨ HIGH PERFORMANCE ROUTER MULTI-FUNCTION ROUTER MULTI-FUNCTION EXTENDER - T10x AC2600 - T3A AC1200 - X1 N300 - T9 AC2400 - T3Av2 AC1200 - X3d AC1200 - X3e AC 1200 - T7 AC1900 - T2 N600 - T5 AC1700 - T1 N300 - T9x AC2400 - T7x AC1900 - T5x AC1700



### > The T9 AC2400 is a system that provides WiFi access

# T9 AC2400

#### High Performance Wi-Fi Router

- Wi-Fi Class AC2400 (600Mbps at 2.4GHz, 1800Mbps at 5GHz)
- 802.11ac Wave 2 for delivering Wider Bandwidth, Dynamic Bandwidth Management and Air time fairness
- Three(3) 10/100/1000 Mbps 1 WAN & 2 LAN Gigabit Ethernet ports
- . USB 3.0 port for media sharing and network print server
- Advanced Wi-Fi MAC ON THE FLY Architecture
- MU-MIMO multiple devices get simultaneous high-bandwidth Wi-Fi signals
- AnyClient Beam Forming ensures maximum Wi-Fi coverage for all clients (up to 128) connected
- VPN Server & Client Support secure remote access for privacy
- · Guest Network Access
- IPv6 Support (Internet Protocol Version 6)
- Dual WAN via 3G/4G USB Dongle and Android tethering mode
- Enhanced Parental Control to select devices to manage contents and schedule settings
- Intelligent QoS prioritize and customize any device and/or contents
- Up-to-date Function- Keeps current with the latest service, updates, and other maintenance releases by cloud server



➤ The T9 AC2400 provides WiFi access simultaneously to multiple end units that are located throughout rooms in a building

# 5GHz Speed Coverage Throughout the Home With No 2.4GHz Interference

As a dual band type router, both 2.4GHz and 5GHz wireless bandwidths are supported simultaneously. The 2.4GHz bandwidth covers the furthest corners of your home for web surfing, email, file sharing, and other general network functions. The 5GHz bandwidth is for online gaming, HD video streaming, and other functions when a buffer-free, high speed, and powerful networking performance is necessary.

# Quick Wi-Fi Speeds For Multiple Devices Connected Simultaneously

Smarter Wi-Fi packet transmission featuring MAC ON THE FLY architecture. Up to 128 devices connected simultaneously supported without a reduction in speed. Upload and download speeds remain stable even in such extreme situations for reliable Wi-Fi connections at all times.

#### > The T9 AC2400 can control which WiFi signals are sent to which end units

# T9 AC2400

High Performance Wi-Fi Router

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### > The T9 AC2400 has video streaming capabilities



#### > The T9 AC2400 supports MU-MIMO and beam-forming technologies

# MU-MIMO For More Connections

Everyone connected to the network can experience fast, high speed internet connections with MU-MIMO technology that supports 4 simultaneous data streams for speeds up to 4 times faster than common AC routers, for all devices connected to the network.



Wi-Fi to multiple devices at the same time

# AnyClient Beamforming Technology Applied To All Devices

Beamforming technology senses devices receiving the antenna waves and focuses the wireless signals. This extends the wireless connection range while establishing a stable, reliable wireless network.

The AnyClient Beamforming technology found on the HUMAX High Performance series is even applied to devices that do not support beamforming. Devices connected wirelessly to the router can enjoy a fast, worry-free, and reliable Wi-Fi connection with beamforming technology.



> The T9 AC2400 supports the latest advanced Wi-Fi standards (802.11n and 802.11ac) for maximum range and elimination of dead zones

# TECH SPECS

### Specification

Product Category	AC2400 Dual Band Smart Wi-Fi Router
Wi-Fi Technology	IEEE 802.11ac/n/a 5GHz, IEEE 802.11b/g/n 2.4GHz
Wi-Fi Performance	600Mbps at 2.4GHz, 1800Mbps at 5GHz
Wi-Fi Band	Simultaneous dual band 2.4 & 5GHz
Antennas	Internal 2.4GHz 3T3R / 5G 4T4R
Advanced Wi-Fi Technology	1) CPU Offload, 2) Flexible packet transmission, 3) Multi client performance.
MU-MIMO	Yes
Beamforming	AnyClient Beamforming - Ensure maximum Wi-Fi coverage to all of the 128 clients connected.

#### US9344183 vs. 802.11n/ac (Wi-Fi) Wireless Routers and Access Points

#### Summary:

This chart compares claims 1 of US9344183 to 802.11n/ac compliant wireless routers and access points. Claim 1 is directed to a system for distributing orthogonal frequency division multiplexing (OFDM) signals carrying multimedia information throughout a multi-room building to multiple end units. A key aspect of the claim that differentiates it from earlier versions of the 802.11 standard (a/b/g) is it requires transmission in multiple directions to multiple end units. This function is supported by multiple-input multiple-output (MIMO) technology, which was introduced in 2009 by 802.11n and later improved in 2013 by 802.11ac. Future versions of the 802.11 standard will also use MIMO technology.

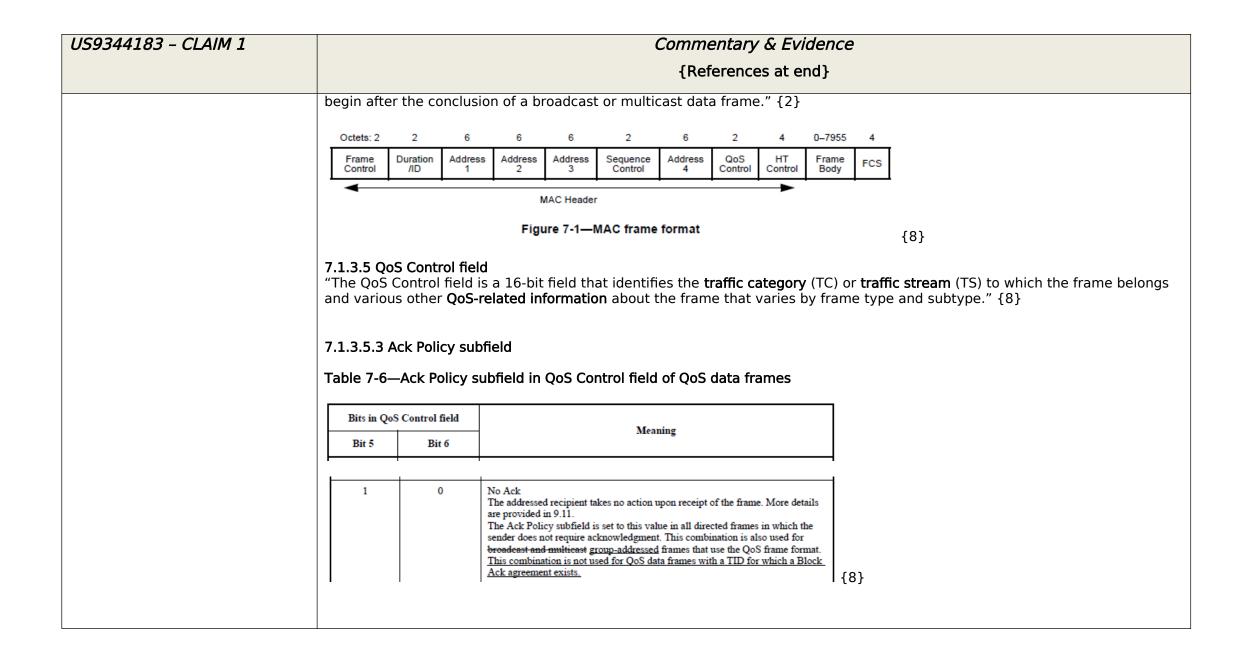
With a priority date of February 29, 2000, US9344183 predates the 802.11ac standard by 13 years and the 802.11n standard by 9 years. These standards use orthogonal frequency division multiplexing as well as multiple-input multiple-output (MIMO) technology both of which compensate for multi-path transmission effects that occur from radio frequency (RF) line of sight (LOS) and RF non-LOS transmission paths, such as occur in multi-room buildings. OFDM technology provides adequate symbol width and guard intervals so as to alleviate inter symbol interference (ISI) effects such as can occur due to multi-path, reflection and absorption phase induced losses. When using broadcast/multicast transmission, 802.11n/ac routers and access points do not expect acknowledgement (ACK) messages from the end-users devices upon the successful reception of packets. In 2009, IEEE 802.11n introduced MIMO directed beamforming techniques, which supported maximum of four space-time streams per transmission. This feature provided the capability to direct transmissions to one or more diversely located end units. IEEE 802.11ac increases the maximum number of space-time streams to eight.

US9344183 - CLAIM 1	Commentary & Evidence		
	{References at end}		
1. A multimedia device for use in	Commentary:		
an indoor, multi-room, home or business, building environment, comprising:	IEEE 802.11n/ac wireless distribution systems include 802.11n/ac compliant wireless routers and access points.  Evidence:  "The single-link and multi-station enhancements supported by 802.11ac enable several new WLAN usage scenarios, such as simultaneous streaming of HD video to multiple clients throughout the home, rapid synchronization and backup of large data files, wireless display, large campus/auditorium deployments, and manufacturing floor automation. [6]  With the inclusion of USB 3.0 interface, 802.11ac access points and routers can use locally attached storage to provide various services that fully utilize their WLAN capacities, such as video streaming, FTP servers, and personal cloud services. [7] With		

US9344183 - CLAIM 1	Commentary & Evidence			
	{References at end}			
	storage locally attached through USB 2.0, filling the bandwidth made available by 802.11ac was not easily accomplished." {1}			
a distribution box located in one of the rooms of the indoor, multi- room, building environment and having at least one input for	Commentary:  An IEEE 802.11n/ac compliant wireless router has a Wide Area Network (WAN) port for connecting to a broadband modem. The broadband modem connects to an Internet service provider via a Cable, DSL, fiber optic line, or terrestrial antenna to receive signals carrying data that provides the Internet service. The Internet service provides many different data and program sources from servers connected to the Internet. The wireless router uses 802.11n/ac (Wi-Fi) to communicate wirelessly to multiple Wi-Fi			
receiving a signal from at least one of a wireless source and a wired source,	clients simultaneously. The coverage area of a Wi-Fi network can be extended by connected to the wireless router to multiple Access Points (AP) is physically diverse locations.			
	"Router: This is the central device of a home network into which you can plug one end of a network cable. The other end of the cable goes into a networking device that has a network port. If you want to add more network devices to a router, you'll need more cables and more ports on the router. These ports, both on the router and on the end devices, are called Local Area Network (LAN) ports." {3}			
	"Wide-area network (WAN) port: Also known as the internet port. Generally, a router has just one WAN port. (Some business routers come with dual WAN ports, so one can use two separate internet services at a time.) On any router, the WAN port will be separated from the LAN ports, and is often distinguished by being a different color. A WAN port is used to connect to an internet source, such as a broadband modem." {3}			
	"Broadband modem: Often called a DSL modem or cable modem, a broadband modem is a device that bridges the internet connection from a service provider to a computer or to a router, making the internet available to consumers." {3}			
	"A wireless network is very similar to a wired network with one big difference: devices don't use cables to connect to the router and one another. Instead, they use radio wireless connections called Wi-Fi (Wireless Fidelity), which is a friendly name for the 802.11 networking standards supported by the Institute of Electrical and Electronics Engineers (IEEE). Wireless networking devices don't need to have ports, just antennas, which sometimes are hidden inside the device itself. In a typical home network, there are generally both wired and wireless devices, and they can all talk to one another. In order to have a Wi-Fi connection, there needs to be an access point and a Wi-Fi client." {3}			

US9344183 - CLAIM 1	Commentary & Evidence				
	{References at end}				
	"Access point: An access point (AP) is a central device that broadcasts a Wi-Fi signal for Wi-Fi clients to connect to. Generally, each wireless network, like those you see popping up on your phone's screen as you walk around a big city, belongs to one access point. You can buy an AP separately and connect it to a router or a switch to add Wi-Fi support to a wired network, but generally, you want to buy a wireless router, which is a regular router (one WAN port, multiple LAN ports and so on) with a built-in access point. Some routers even come with more than one access point (see discussion of dual-band and tri-band routers below)." {3}				
	"Wi-Fi client: A Wi-Fi client or WLAN client is a device that can detect the signal broadcast by an access point, connect to it and maintain the connection. All recent laptops, phones and tablets on the market come with built-in Wi-Fi capability." {3}				
the signal having at least one of an	Commentary:				
audio component and a video component; and	The wireless signals transmitted by an 802.11n/ac compliant wireless router or access point include signals for video streaming and broadband data communications.				
	<u>Evidence:</u>				
	"802.11ac is the latest evolution of Wi-Fi, and it should be particularly good for gaming and HD video streaming." {4}				
	"The single-link and multi-station enhancements supported by <b>802.11ac</b> enable several new WLAN usage scenarios, such as simultaneous streaming of HD video to multiple clients throughout the home, rapid synchronization and backup of large data files, wireless display, large campus/auditorium deployments, and manufacturing floor automation." {1}				
	"The last major revision to the main WiFi standard was <b>802.11ac</b> , which was designed to dramatically increase the speed of <b>data transfers</b> . This is the first standard on the way to "Gigabit WiFi" where speeds can reach 1 Gbit/s, by far the fastest WiFi version to date. 802.11ac also runs solely on the less cluttered 5 GHz band and this higher frequency and modulation rate allows for a higher speed, at the expense of range compared with 2.4 GHz 802.11n or g." {5}				
an orthogonal frequency division	Commentary:				
multiplexing (OFDM) transceiver	IEEE 802.11 n/ac routers and access points use OFDM transmission techniques. They also supports MIMO transmission, which				
operatively connected to the at	uses multiple input and multiple output antennas to improve signal transmission in indoor environments. MIMO also provides				
least one input of the distribution	beamforming capabilities.				

US9344183 - CLAIM 1	Commentary & Evidence			
	{References at end}			
box,	"Traditionally, radio engineers treated natural multipath propagation as an impairment to be mitigated. MIMO is the first radio technology that treats multipath propagation as a phenomenon to be exploited. MIMO multiplies the capacity of a radio link by transmitting multiple signals over multiple, co-located antennas. This is accomplished without the need for additional power or bandwidth. Space-time codes are employed to ensure that the signals transmitted over the different antennas are orthogonal to each other, making it easier for the receiver to distinguish one from another. Even when there is line of sight access between two stations, dual antenna polarization may be used to ensure that there is more than one robust path.  OFDM enables reliable broadband communications by distributing user data across a number of closely spaced, narrowband subchannels. This arrangement makes it possible to eliminate the biggest obstacle to reliable broadband communications, intersymbol interference (ISI). ISI occurs when the overlap between consecutive symbols is large compared to the symbols' duration. Normally, high data rates require shorter duration symbols, increasing the risk of ISI. By dividing a high-rate data stream into numerous low-rate data streams, OFDM enables longer duration symbols. A cyclic prefix (CP) may be inserted to create a (time) guard interval that prevents ISI entirely. If the guard interval is longer than the delay spread—the difference in delays experienced by symbols transmitted over the channel—then there will be no overlap between adjacent symbols and consequently no intersymbol interference. Though the CP slightly reduces spectral capacity by consuming a small percentage of the available bandwidth, the elimination of ISI makes it an exceedingly worthwhile tradeoff. "{6}			
and operative for wirelessly and unidirectionally broadcasting the signal using OFDM modulation inside the indoor, multi-room, building environment	Commentary regarding broadcasting:  IEEE 802.11n/ac supports broadcast transmission of data frames, in which case there the receiving end unit does not send an acknowledgement when it receives a data frame. In IEEE 802.11n (2009) the nomenclature for broadcast and multicast frames changed to "group addressed" frames. Generally, group addressed frames are frames that are addressed to more than one destination. The Quality of Service (QoS) control field of a data frame is a 16-bit field that identifies the traffic category or traffic stream to which the frame belongs and other QoS-related information about the frame. The Ack Policy subfield (bits 5 and 6) of the QoS control field is used to specify whether or not the data frame requires an acknowledgement. The combination of bit 5 = 1 and bit 6 = 0 is used for group addressed data frames to indicate that an acknowledgement is not required for the data frame.  Evidence regarding broadcasting:  "Frames transmitted to a broadcast or multicast destination (Address 1 has the group bit set) have a duration of 0. Such frames are not part of an atomic exchange and are not acknowledged by receivers, so contention-based access to the medium can			



US9344183 - CLAIM 1	Commentary & Evidence			
	{References at end}			
from the distribution box in the room in multiple directions	Commentary  In 2009, IEEE 802.11n introduced MIMO transmission capability, which supports directed beamforming. Beamforming enables transmissions to be spatially directed to a one or more diversely located receivers. In 2013, IEEE 802.11ac extended the maximum number of space-time streams supported from four streams in 802.11n to eight in 802.11ac. The Very High Throughput (VHT) physical specification (PHY) of 802.11ac applies to individually addressed and group addressed transmission (see the earlier discussion regarding broadcast/multicast transmissions now referred to as group addressed transmissions.) The VHT PHY also provides support for downlink multi-user (MU) transmissions. A downlink MU transmission supports up to four users with up to four space-time streams per user with the total number of space-time streams not exceeding eight. The following figure depicts directed space-time streams being transmitted to end units. Note that either the transmission depicted by the blue arrows (i.e. eight streams) or the transmission depicted by the green arrows and the red arrows (i.e. total of eight streams) would occur simultaneously, so as not to exceed the maximum of eight streams.  Evidence:  "22. Very High Throughput (VHT) PHY specification  22.1 Introduction  22.1 Introduction to the VHT PHY  Clause 22 specifies the PHY entity for a very high throughput (VHT) orthogonal frequency division multiplexing (OFDM) system. In addition to the requirements in Clause 22, a VHT STA shall be capable of transmitting and receiving PPDUs that are compliant with the mandatory PHY specifications defined in Clause 20.  The VHT PHY is based on the HT PHY defined in Clause 20, which in turn is based on the OFDM PHY defined in Clause 18. The VHT PHY extends the maximum number of space-time streams supported to eight and provides support for downlink multi-user (MU) transmissions. A downlink MU transmission supports up to four users with up to four space-time streams per user with the			
	total number of space-time streams not exceeding eight.  NOTE—A VHT SU PPDU includes individually addressed and <b>group addressed transmissions</b> ." {9}			

US9344183 - CLAIM 1	Commentary & Evidence  {References at end}
	Figure 4-14. Multi-user MIMO transmission model system
	{7}
to a plurality of end units,	Commentary:
	An IEEE 802.11n/ac compliant wireless router or access point is capable of communicating with many types of end units.

US9344183 - CLAIM 1		Ci	ommentary & Evidenc	:e	
	{References at end}				
	Examples of the various types of These Wi-Fi client devices includ Evidence:		•		nt devices is given in the table below. and set-top boxes.
	Scenario	Typical client form factor	PHY link rate	Aggregate capacity (speed)	
	One-antenna AP, one-antenna STA, 80 MHz	Handheld	433 Mbit/s	433 Mbit/s	
	Two-antenna AP, two-antenna STA, 80 MHz	Tablet, laptop	867 Mbit/s	867 Mbit/s	
	One-antenna AP, one-antenna STA, 160 MHz	Handheld	867 Mbit/s	867 Mbit/s	
	Three-antenna AP, three-antenna STA, 80 MHz	Laptop, PC	1.27 Gbit/s	1.27 Gbit/s	
	Two-antenna AP, two-antenna STA, 160 MHz	Tablet, laptop	1.69 Gbit/s	1.69 Gbit/s	
	Four-antenna AP, four one-antenna STAs, 160 MHz (MU-MIMO)	Handheld	867 Mbit/s to each STA	3.39 Gbit/s	
	Eight-antenna AP, 160 MHz (MU-MIMO)  one four-antenna STA  one two-antenna STA  two one-antenna STAs	Digital TV, Set-top Box, Tablet, Laptop, PC, Handheld	3.39 Gbit/s to four-antenna STA     1.69 Gbit/s to two-antenna STA     867 Mbit/s to each one-antenna STA	6.77 Gbit/s	
	Eight-antenna AP, four 2-antenna STAs, 160 MHz (MU-MIMO)	Digital TV, tablet, laptop, PC	1.69 Gbit/s to each STA	6.77 Gbit/s	{1}
at least one of the end units being located in another room separated by a wall from the one room of the indoor, multi-room, building environment,	multi-room building. The excerpt point was tested. The access poi non-line of sight transmissions th better wall penetration capability	from the reference nt is depicted as a nrough at least one than similar 802.1	ed research paper described research blue square in the figure. interior wall. IEEE 802.11 lac systems because the	es an offi Wireless n routers y transm	of passes through walls of an indoor, fice scenario in which an 802.11ac access devices at locations E, G, and H receive and access points are thought to have hit at 2.4 GHz, as compared to 802.11ac support dual frequencies - 2.4Ghz and 5

US9344183 - CLAIM 1	Commentary & Evidence		
	{References at end}		
	Evidence:		
	"3. 802.11AC THROUGHPUT & JITTER PERFORMANCE CHARACTERIZATION		
	3.1 Office scenario		
	We deploy an <b>indoor 802.11ac WLAN testbed</b> in our offices, covering an area of 40×15m2. The office testbed is depicted in Fig. 1 with <b>the blue square indicating the AP and the red circles the clients</b> . The <b>average RSSI</b> and other characteristics <b>of each client</b> evaluated in the office testbed are <b>described in Table 1</b> . "{10}		

#### US9344183 - CLAIM 1 Commentary & Evidence {References at end} Figure 1: 802.11ac office testbed used for the throughput and latency measurements. The blue square indicates the access point and a red circle a client. RSSI Line of Sight | Quality Link Yes $\mathbf{A}$ $-10\,\mathrm{dBm}$ Strong -14 dBm Yes В Strong $-27\,\mathrm{dBm}$ No Strong D $-40\,\mathrm{dBm}$ No Medium $\mathbf{E}$ $-45\,\mathrm{dBm}$ No Medium $\mathbf{F}$ $-57\,\mathrm{dBm}$ No Medium G No $-61\,\mathrm{dBm}$ Weak $-75\,\mathrm{dBm}$ H No Weak Table 1: Average RSSI values for each link type in the office testbed, when using channel 149. {10} "5Ghz does have a downside in that it is less able to penetrate solid walls and objects, so if you go outside your house to use your phone, your connection might drop. So to sum up, 2.4Ghz is very congested resulting in dropped connections and slow data throughput. However, it is better suited for transmitting data over longer ranges and through walls and other solid objects. 5Ghz by contrast, is what we'll call the "indoor" band. It's ideal for connections inside the house due to the lack of congestion,

higher data transmission rates, and smaller effective range. It's also the only band available if you want to take advantage of

	{References at end}
	war super fact wireless AC standard [11]
the nev	wer, super-fast wireless AC standard. {11}
each having a width of sufficient duration to resist multi-path reflection and absorption phase induced losses.  multi-path quality) which t walls m describ rate on interfer transmit.  Evidence "3.2 Ho To valid with the describ in link of the describ i	22.11n/ac compliant routers and access points use OFDM transmission techniques that enable the transmission to resist bath reflection and absorption phase induced losses. The first references compares 802.11ac transmission testing (link results between an office testbed, in which the interior walls were made of concrete and steel, to a home testbed, in the interior walls were made of wood. In both cases the transmissions penetrated the interior walls, even though the nade of concrete and steel provided a higher degree of reflections and multi-path effects. The second reference was how OFDM signals resist these effects. Specifically, by distributing the data across multiple subchannels, the data each subchannel is slow enough that the transmitted data symbols are of long enough duration to resist intersymbol rence, which is caused by the effects of multi-path reflection and absorption phase induced losses. Therefore, the itted packets, which comprise these symbols, are of sufficient duration to resist these effects.

US9344183 - CLAIM 1	Commentary & Evidence		
	{References at end}		
	duration. Normally, high data rates require shorter duration symbols, increasing the risk of ISI. By dividing a high-rate data stream into numerous low-rate data streams, OFDM enables longer duration symbols. A cyclic prefix (CP) may be inserted to create a (time) guard interval that prevents ISI entirely. If the guard interval is longer than the delay spread—the difference in delays experienced by symbols transmitted over the channel—then there will be no overlap between adjacent symbols and consequently no intersymbol interference. Though the CP slightly reduces spectral capacity by consuming a small percentage of the available bandwidth, the elimination of ISI makes it an exceedingly worthwhile tradeoff. "{6}		

- {1} New scenarios and configurations <a href="https://en.wikipedia.org/wiki/IEEE\_802.11ac">https://en.wikipedia.org/wiki/IEEE\_802.11ac</a>
- {2} 802.11 Wireless Networks: The Definitive Guide, 2nd Edition, Chapter 4, 802.11 Framing in Detail <a href="https://www.safaribooksonline.com/library/view/80211-wireless-networks/0596100523/ch04.html">https://www.safaribooksonline.com/library/view/80211-wireless-networks/0596100523/ch04.html</a>
- {3} Home networking: Everything you need to know <a href="https://www.cnet.com/how-to/home-networking-explained-part-1-heres-the-url-for-you/">https://www.cnet.com/how-to/home-networking-explained-part-1-heres-the-url-for-you/</a>
- {4} 802.11ac: what you need to know <a href="http://www.techradar.com/news/networking/wi-fi/802-11ac-what-you-need-to-know-1059194">http://www.techradar.com/news/networking/wi-fi/802-11ac-what-you-need-to-know-1059194</a>
- {5} WiFi standards explained: what you should know about the new 802.11 ad, ah & af standards <a href="http://www.androidauthority.com/wifi-standards-explained-802-11b-g-n-ac-ad-ah-af-666245/">http://www.androidauthority.com/wifi-standards-explained-802-11b-g-n-ac-ad-ah-af-666245/</a>
- {6} MIMO-OFDM <a href="https://en.wikipedia.org/wiki/MIMO-OFDM">https://en.wikipedia.org/wiki/MIMO-OFDM</a>
- {7} 802.11ac A Survival Guide, Chapter 4: Beamforming in 802.11ac <a href="http://chimera.labs.oreilly.com/books/1234000001739/ch04.html">http://chimera.labs.oreilly.com/books/1234000001739/ch04.html</a>
- {8} IEEE Std 802.11n-2009
- {9} IEEE Std 802.11ac-2013
- {10} Evaluating 802.11ac Features in Indoor WLAN: An Empirical Study of Performance and Fairness

https://s3-us-west-1.amazonaws.com/disneyresearch/wp-content/uploads/20161017225518/Evaluating-802.11ac-Features-in-Indoor-WLAN-An-Empirical-Study-of-Performance-and-Fairness-Paper.pdf

{11} What's the Difference Between 2.4 and 5-Ghz Wi-Fi? (and Which Should You Use) <a href="http://www.howtogeek.com/222249/whats-the-difference-between-2.4-ghz-and-5-ghz-wi-fi-and-which-should-you-use/">http://www.howtogeek.com/222249/whats-the-difference-between-2.4-ghz-and-5-ghz-wi-fi-and-which-should-you-use/</a>